Francesc Moreno-Noguer

Institut de Robòtica i Informàtica Industrial (CSIC-UPC)
Llorens i Artigas 4-6
Barcelona, 08028

Tel: +34 93 4010775
Email: fmoreno@iri.upc.edu
http://www.iri.upc.es/people/fmoreno/

RESEARCH INTERESTS

Computer Vision and Deep Learning: Human shape, pose and motion recovery; 3D reconstruction of rigid and non-rigid objects; Camera calibration. Feature extraction. Application of these topics to robotics, medical imaging and computer graphics.

PROFESSIONAL EXPERIENCE

2021-present	Research Scientist, Institut de Robòtica i Informàtica Industrial
2019-present	Computer Vision Senior Advisor, Kognia Sports Intelligence
2008-2021	Associate Researcher, Institut de Robòtica i Informàtica Industrial Spanish National Research Council - Universitat Politècnica de Catalunya
2007-2008	Postdoctoral Researcher, Computer Vision Laboratory Ecole Polytechnique Fédérale de Lausanne, Switzerland
2005-2006	Postdoctoral Researcher, Computer Vision Laboratory Columbia University, USA
2004-2005	Visiting Scientist, Laboratory for the Study of Visual Appearance Columbia University, USA
2001-2005	PhD Student, Institut de Robòtica i Informàtica Industrial Spanish National Research Council - Universitat Politècnica de Catalunya

EDUCATIONAL BACKGROUND

11/2005	PhD in Computer Science, Universitat Politècnica de Catalunya
08/2002	M.S. in Electronic Engineering, Universitat de Barcelona
03/2001	M.S. in Industrial Engineering, Universitat Politècnica de Catalunya

HONORS and AWARDS

2021	ICCV Outstanding Reviewer Award.
2021	CVPR Outstanding Reviewer Award.
2019	Google Dream Reseach Award.
2019	Amazon Research Award.
2019	Diploma of the UPC in recognition of the scientific merits during 2018.
2018	Best Paper Honorable Mention Award at ECCV, Munich, Germany.
2018	Diploma of the UPC in recognition of the scientific merits during 2017.
2018	Homage of CSIC in recognition of the scientific merits during 2017.
2017	Best Paper Award at ICCV Computer Vision For Fashion Workshop, Venice, Italy.
2017	E.Simo-Serra (under my supervision) received the UPC PhD Thesis Extraordinary Award.
2017	Google Faculty Research Award.
2017	Diploma of the UPC in recognition of the scientific merits during 2016.
2016	E.Simo-Serra PhD Thesis (under my supervision) received the Marc Esteve Award of the Catalan Association of Artificial Intelligence.
2015	Diploma of the UPC in recognition of the scientific merits during 2014.

2015	Best Poster Award at IBPRIA (Iberian Conf. Pattern Recogn.), Santiago Compost., Spain.
2015	Best Paper Award at International Conf. on Machine Vision Applications, Tokyo, Japan.
2014	Best Computer Vision Paper Award at Jornadas Automática, Valencia, Spain.
2014	CVPR Outstanding Reviewer Award, Columbus, USA.
2012	ECCV Outstanding Reviewer Award, Florence, Italy.
2009	Best Paper (Nomination) Award at IROS, Saint Louis, USA.
2008	PhD Extraordinary Award of the Universitat Politècnica de Catalunya.
2005	Best Paper Award at IBPRIA (Iberian Conf. Pattern Recogn.), Estoril, Portugal.
2001-2004	Doctoral Fellowship (FPI), Ministry of Education and Sciences, Spain.

PARTICIPATION IN RESEARCH PROJECTS

Ongoing projects

- **Principal Investigator** of the R&D contract with Naver Labs France: "Text4Pose: Leveraging text to improve human pose, shape, motion estimation and generation ", (206 K€), 2021–2025.
- **Principal Investigator** of the National project MuHoCo "Modeling Humans in Context" (119 K€), 2021–2024.
- **Principal Investigator** of the Google Research Award project "GANimation3D: Unsupervised 3D Face Animation from Monocular Images" (63 K$), 2019-2021.
- **Principal Investigator** of the Amazon Research Award project "Geometry-aware 3D Human Body Animation from Still Photos" (67 K$), 2019-2021.
- **Principal investigator** (at IRI-CSIC) of the ERA-Net Chistera project IPALM "Interactive Perception-Action-Learning for Modelling Objects" (111 K€), 2019–2022.

Finished projects

- **Principal Investigator** of the National project HuMoUR "Markerless 3D Human Motion Understanding for Adaptive Robot Behavior" (166 K€), 2018–2021.
- **Co-investigator** of the European project AEROARMS "Aerial Robotics System Integrating Multiple Arms and Advanced Manipulation Capabilities for Inspection and Maintenance" (563 K€), 2015–2019.
- **Co-investigator** of the ERA-Net Chistera project "IDRESS - Assistive Interactive Robotic System for Support in Dressing" (140 K€), 2015–2018.
- **Principal Investigator** (with V. Lepetit) of the Google Faculty Research Award project 'Geometry-aware CNNs for Non-Rigid Shape Reconstruction" (46.5 K$), 2017-2018.
- **Principal Investigator** of the National project RobInstruct "Instructing robots using natural communication skills" (160 K€), 2015–2017.
- **Principal Investigator**, Programme "Acciones de Dinamización de Carácter Internacional Europa Investigación", for the project "Automatic Generation of Movie Audio Descriptions for visually impaired" (25 K€), 2015–2016.
- **Principal investigator** (at IRI-CSIC) of the ERA-Net Chistera project VISEN "Tagging visual data with semantic descriptions" (130 K€), 2013–2016.
- **Co-investigator** of the European project ARCAS "Aerial Robotics Cooperative Assembly System" (783 K€), 2012–2015.
- **Co-investigator** of the National project PAU + "Perception and Action under Uncertainty" (193 K€), 2012–2015.
- **Co-investigator** of the European project INTELLACT "Intelligent Observation and Execution of Actions and Manipulations" (367 K€), 2011–2014.

- **Co-investigator** of the European project GARNICS "Gardening with a Cognitive System" (477 K€), 2010–2013.
- **Co-investigator** of the National project PAU "Perception and Action under Uncertainty" (217 K€), 2009–2011.
- **Principal investigator** of the National project BPnP "Priors for Rigid and Non-Rigid Detection" (30 K€), 2009.
- **Co-investigator** of the National project MIPRCV "Multimodal Interaction in Pattern Recognition and Computer Vision (643 K€), 2008–2012.
- **Co-investigator** of the European project PACO + "Perception, Action and Cognition through Learning of Object-Action Complexes" (645 K€), 2006–2010.
- **Co-investigator** of the European project URUS "Ubiquitous Robotics in Urban Settings" (498 K€), 2006–2009.
- **Co-investigator** of the European project DYVINE "Dynamic Visual Networks" (211 K€), 2006–2008.

PATENTS

- "Method for Determining a Grasping Hand Model". Inventors: F.Moreno-Noguer, G.Alenyà, E. Corona, A.Pumarola, G.Rogez. Patent P202030553, filled on 9 June 2020.

INDUSTRIAL COLLABORATIONS

Ongoing projects

- **Principal investigator** of the project "Automatic Personal Trainer" with InspiraBCN (6K€), 2021.
- **Principal investigator** of the project "DeepSoccer: Deep Learning Technology applied to Soccer Videos" with Optima Sports (41K€), 2019-2021.

Finished project

- **Co-investigator** of the project "Termosold: Artificial Intelligent Techniques for Weld Inspections in Packaging Lines" with Volpak S.A.U. (75 K€), 2015-2017.
- **Principal investigator** of the project "Semi-Automatic Neuronal Reconstruction in Cadmaid" with Howard Hughes Institute, Janelia Research Campus (61 K€), 2015–2016.
- **Principal investigator** of the project "Accurate Calibration Algorithms in Sport Events" with MediaPro (28 K€), 2014–2015.
- **Co-principal investigator** of the project "RecycLearn: Learning Computer Vision Strategies for Recycling Plants" with Sadako Technologies S.L. (6 K€), 2013–2014.
- **Co-principal investigator** of the project "Obstacle Avoidance for Aerial Robots with Computer Vision" with the Asociación de Industrias de Navarra (50 K€), 2010–2011.

INDUSTRIAL PhDs

Ongoing project

- **Principal investigator** of the AGAUR project "Geometric Computer Vision meets Deep Learning for Autonomous Driving Applications", UPC-Ficosa, (21.6K€+ 3-year PhD support), 2016-2019.
- **Principal investigator** of the AGAUR project "Fashion Discovery: A Computer Vision Approachs", UPC-Wide Eyes Technologies S.L, (21.6K€+ 3-year PhD support), 2016-2019.

OTHER FUNDING SOURCES

· **Nvidia Grant Program:** During the period 2015-2018, Nvidia has donated to our group up to 8 GPUs, with an approximate value of 16 K€.

SEMINARS, TUTORIALS AND INVITED TALKS

1. "Deep Human Modeling from Single Images", Seminar at the Research Group in Computer Vision, École des Ponts ParisTech, France (virtual), September 2021.
2. "Modeling Humans and their Contextual Interactions", Robotics and AI Summer School, Barcelona, June 2021.
3. "GanHand: Predicting Human Grasp Affordances in Multi-object Scenes", DeepTails seminar at INRIA, Grenoble (virtual), January 2021.
4. "Predicting Human Grasp Affordances in Multi-object Scenes", ICPR Workshop on Perception and Modelling for Manipulation of Objects (virtual), January 2021.
5. "Modeling Humans and their Contextual Interactions", Robotics and AI Summer School, Barcelona (virtual), June 2020.
6. "20 years of Computer Vision in Human Modeling", OptimaSports, Sant Joan d'Espí, December 2019.
7. "Geometric Deep Learning for Perceiving and Modeling Humans", Instituto de Micro y Nanotecnología del CSIC, Tres Cantos, Madrid, December 2019.
8. "Geometric Deep Learning for Perceiving and Modeling Humans", Jornada Deep Learning: La revolución tecnológica de la inteligencia artificial, Tecnalia, Bilbao, December 2019.
9. "Geometric Deep Learning for Perceiving and Modeling Humans", Stony Brook University, New York, USA, October 2019.
10. "Geometric Deep Learning for Perceiving and Modeling Humans", Facebook Reality Labs, Pittsburgh, USA, September 2019.
11. "Geometric Deep Learning for Perceiving and Modeling Humans", Robotics Institute, Carnegie Mellon University, Pittsburgh, USA, August 2019.
12. "Geometric Deep Learning for Perceiving and Modeling Humans", INRIA, Grenoble, France, May 2019.
13. "Geometric Deep Learning for Perceiving and Modeling Humans", The 44th Pattern Recognition and Computer Vision Colloquium. Center for Machine Perception, Czech Technical University, Prague, April 2019.
14. "Geometric Deep Learning for Perceiving and Modeling Humans", Deep Learning Barcelona Symposium, December 2018.
15. "Deep Regression of Distance Matrices for 3D Human Pose Estimation and Action Recognition", University of Bordeaux, France, November 2017.
16. "Distance Matrix Representations for 3D Human Pose Estimation and Action Recognition", Ecole Polytechnique Fédérale de Lausanne, Switzerland, September 2017.
17. "Non-Rigid Shape from Single Images: From Linear to Deep Learning Formulations". Xerox Research Center Europe, Grenoble, December 2016.
18. "3D Shape and Pose from Monocular Images". Computer Vision Center, Universitat Autònoma de Barcelona, 2015.
19. "Monocular 3D Detection of Rigid and Non-Rigid Objects". Keynote speaker in Portuguese Conference on Pattern Recognition. Covilha, Portugal, 2014.

20. "Monocular 3D Detection of Rigid and Non-Rigid Objects". Jornadas de Automàtica. Valencia, Spain, 2014.
21. "Algorithms for Non-Rigid Reconstruction and Recognition". European Robotics Forum, Workshop on Dexterous Robotic Manipulation Systems for clothing and Flexible Materials. Rovereto, Italy, 2014.
22. "Linear Formulations for Deformable Shape Reconstruction". ISIT-CENTI (Faculté de Medicine), Université d'Auvergne Clermont Ferrand, France (Host by Prof. Adrien Bartoli), 2012.
23. "Linear Formulations for Rigid and Non-Rigid 2D-to-3D Registration". The 30th Pattern Recognition and Computer Vision Colloquium. Center for Machine Perception, Czech Technical University, Prague (Host by Prof. Jiri Matas), 2012.
24. "Linear Formulations for Rigid and Non-Rigid 2D-to-3D Registration". Information Technology and Telecommunication Department, Univ. Pompeu Fabra, Barcelona (Host by Prof. Xavier Binefa), 2012.
25. "Closed Form Solutions to Rigid and Non-Rigid Detection". Computer Vision Center, Universitat Autònoma de Barcelona, 2010.
26. "Pose Estimation from known and unknown Point Correspondences". Universidad Carlos III, Madrid, Spain (CEA Workshop on Computer Vision and Machine Learning), 2009.
27. "Closed Form Solutions to Rigid and Non-Rigid 3D Surface Registration". Institut de Robòtica i Informàtica Industrial, Barcelona, 2008.
28. "Active Refocusing of Images and Videos". Stony Brook University, New York, USA (Host by Prof. Dimitris Samaras), 2007.
29. "Active Refocusing of Images and Videos". Ecole Polytechnique Fédérale de Lausanne, Switzerland, 2007.
30. "Helmholtz Stereopsis". Ecole Polytechnique Fédérale de Lausanne, Switzerland, 2007.
31. "Multiple-Cue Integration for Robust Tracking in Dynamic Environments". Ecole Polytechnique Fédérale de Lausanne, Switzerland (Host by Prof. Pascal Fua), 2006.
32. "Optimal Illumination for Image and Video Relighting". Institut de Robòtica i Informàtica Industrial, Barcelona, 2005.
33. "Fusion of a Multiple Hypotheses Color Model and Deformable Contours for Figure Ground Segmentation in Dynamic Environments". Stony Brook University, New York, USA (Host by Prof. Dimitris Samaras), 2004.

VISITS

- Robotics Institute, Carnegie Mellon University, Pittsburgh, USA (Host by Fernando de la Torre), July-October 2019 (3 months).
- ISIT-CENTI (Faculté de Medicine), Université d'Auvergne Clermont Ferrand, France (Host by Prof. Adrien Bartoli). September 2012 (2 weeks).

TEACHING EXPERIENCE

- Professor of the Master Course "Advanced Topics in Computer Vision". Master's degree in Automatic Control and Robotics, Universitat Politècnica de Catalunya, 2013-2017.
- Invited Speaker of the Master in Computer Vision Course "3D Vision". Pompeu Fabra, 2015.
- Invited Speaker of the Master Course "Advanced Computer Vision". Computer Vision Center, Universitat Autònoma de Barcelona, 2012.
- Invited Speaker of the Master Course "Advanced Computer Vision". Computer Vision Center, Universitat Autònoma de Barcelona, 2011.

· Professor (in collaboration with V.Lepetit) of the Phd course "Selected Topics in Computer Vision". Ecole Polytechnique Fédérale de Lausanne, Switzerland, 2007.

· Invited Speaker for the PhD Course "Advanced Topics in Computer Vision", given by Prof. Shree Nayar. Columbia University, New York, USA, 2006.

STUDENTS SUPERVISION

Postdocs

1. Adrià Ruiz (2020-), Juan de la Cierva Postdoc.
2. Jordi Sanchez (2017 - 2019), now Associate Researcher at IRI.
3. Kiko Belchi (2018-2019), now at University of Barcelona.
4. Lorenzo Porzi (2017), now at Facebook.
5. Antonio Agudo (2016-2017), now Associate Researcher at IRI.
6. Arnau Ramisa (2015-2016), now at Amazon.
7. Michael Villamizar (2012-2016), now at IDIAP.

Phd, ongoing

1. Wen Guo (co-advised with X.Alameda), "Physical complex Interactions and Multi-person Pose Estimation", 2019–present.
2. Enric Corona (co-advised with G.Alenyà), "Human Motion Understanding for Robot Interaction", 2019–present.
3. Joan Ferrandis (co-advised with J.Andrade), "Robust Localization and Mapping using Event-based Cameras", 2018–present.
4. Nicolas Ugrinovic (co-advised with A.Sanfeliu), "Predicting Human Motion and Shape", 2018–present.
5. Albert Pumarola (co-advised with A.Sanfeliu), "Bridging the Gap between Geometry and Deep Learning", 2016–present.
6. Alejandro Hernandez, "Instructing Robots using Natural Communications Skills", 2016–present.

Phd, finished

1. Antonio Rubio (co-advised with E.Simo), "Fashion Discovery: a Computer Vision Approach", 2021.
2. Javier Garcia (co-advised with A.Agudo), "Geometric Computer Vision meets Deep Learning for Autonomous Driving Applications", Industrial PhD with Ficosa, 2021.
3. Ahmed Sabir (co-advised with L.Padró), "Enhancing Scene Text Recognition with Visual Context Information", 2020.
4. Victor Vaquero (co-advised with A.Sanfeliu), "Lidar-based Scene Understanding for Autonomous Driving using Deep Learning", 2020.
5. Adrián Peñate (co-advised with J.Andrade), "3D Pose Estimation in Complex Environments", 2017.
6. Edgar Simó (co-advised with C.Torras), "Understanding Human-Centric Images: From Geometry to Fashion", 2015.
7. Eduard Trulls (co-advised with prof. A.Sanfeliu), "Enhancing low-level features with mid-level cues", 2015.

Master's thesis, finished

1. Òscar Lorente (coadvised with X.Giró and E.Corona), "Multi-view 3D People Reconstruction combining Parametric and Non-parametric models", 2021

2. Aditya Rana (coadvised with A.Rubio), "Event Detection in Football using Graph Convolutional Networks ", 2021
3. Jordi Burgués-Miró, "Automatic Personal Training using Real-Time Human Pose Estimation", 2021
4. Daniel Ordoñez (coadvised with M.Martin), "Learning to run naturally: Guiding policies with the Spring-Loaded Inverted Pendulum", 2021
5. Joan Ortí (coadvised with V.Puig), "Surface defect classification in automotive coating process using Deep Learning", 2020
6. Biel Coll (coadvised with M.Dimiccolli), "Human Motion Dataset in the Wild", 2019.
7. Antonio Romero (coadvised with A.Hernández), "A Human Shape-Motion Predictor with Deep Learning", 2019.
8. Mahed Nadar (coadvised with A.Hernández), "CNN Benchmark in sewage pipe defects classification", 2017.
9. Victor Blasco (co-advised with J.M.Porta), "Tracking Daphnia with Computer Vision", 2017.
10. Sergi Molina (co-advised with A.Agudo), "Non-Rigid Structure from Motion for Complex Motion", 2016.
11. Beñat Irastorza (co-advised with A.Agudo), "3D reconstruction of Deformable Objects with Volume", 2016
12. Ferran Plana, "Sewer defects detection from depth images using deep learning", 2016.
13. Ana Genova and Xavi Gironès (co-advised with A.Agudo), "Tree Recognition using Convolutional Neural Networks", 2016.
14. Sinuhe Garré (co-advised with A.Penate), "Android Implementation of a 3D Pose Algorithm", 2015.
15. Antonio Rubio (co-advised with M.Villamizar), "3D Pose Estimation using Convolutional Neural Networks", 2015.
16. Edgar Riba (co-advised with A.Penate), "Implementation of a 3D Pose Estimation Algorithm", 2015.
17. Fran Edwin Salgado, "Next Best View Algorithm based on DOF of a structured light 3D scanner", 2012.
18. Edgar Simó (co-advised with A.Pérez), "Kinematic Model of the Hand using Computer Vision", 2011.
19. Jordi Bautista (co-advised with J.Andrade), "Camera Motion and Time to Collision Estimation from Aerial Images", 2010.
20. Anna Tamarit, "Solving Correspondences for Non-Rigid Deformations", 2010.
21. Eduard Serradell, "Combining Geometric and Appearance Priors for Pose Recovery", 2010.

Other

1. Alexander Vakhitov, Visitor (2016), now at Moscow University.
2. Lluis Ferraz, Visitor (2013-2014), now at Optima Sports.

PHD COMMITTEES

1. Hassan Ahmed Sial, advised by Maria Vanrell and Ramon Baldrich. Computer Vision Center, Universitat Autònoma de Barcelona, Spain, 2021.
2. Angel Noé Martínez Gonzalez, advised by Jean-Marc Odobez. Idiap Research Institute, EPFL, Lausanne, Switzerland, 2021.
3. Míriam Bellver, advised by X.Giró and J.Torres. Universitat Politècnica de Catalunya, Barcelona, Spain, 2021.

4. Gabriel Villalonga, advised by Antonio Lopez and Germán Ros. Computer Vision Center, Universitat Autònoma de Barcelona, Spain, 2021.
5. Sounak Dey, advised by Josep Lladós and Umapada Pal. Computer Vision Center, Universitat Autònoma de Barcelona, Spain, 2020.
6. Raúl Gómez, advised by Dimos Karatzas and Lluís Gómez. Computer Vision Center, Universitat Autònoma de Barcelona, Spain, 2020.
7. Felipe Coldevilla, advised by Antonio Lopez. Computer Vision Center, Universitat Autònoma de Barcelona, Spain, 2019.
8. Joan Vallvé, advised by J.Andrade and J.Solà. Universitat Politècnica de Catalunya, Barcelona, Spain, 2019.
9. Lorenzo Porzi, advised by P.Valigi and E.Ricci, Univertity of Perugia, Italy, 2017.
10. Yuxing Tang, advised by L.Chen and E. Dellandréa. Ecole Centrale de Lyon, France, 2016.
11. Carles Ventura, advised by X.Giró and V.Vilaplana. Universitat Politècnica de Catalunya, Barcelona, Spain, 2016.
12. Przemyslaw Glowacki, advised by P.Fua. Ecole Polytechnique Fédérale de Lausanne, Switzerland, 2016.
13. Agustin Ortega, advised by J.Andrade. Universitat Politècnica de Catalunya, Barcelona, Spain, 2015.
14. Jiaolong Xu, advised by Antonio Lopez. Computer Vision Center, Universitat Autònoma de Barcelona, Spain, 2015.
15. Marcel Alcoverro Vidal, advised by M.Pardas and J.R. Casas. Universitat Politècnica de Catalunya, Barcelona, Spain, 2014.
16. Antonio Rodríguez López, advised by P.E. López de Teruel and A.Ruiz. Universidad de Murcia, Spain, 2013.
17. Rafael Valencia, advised by J.Andrade. Universitat Politècnica de Catalunya, Spain, Barcelona, 2013.
18. Marco Pedersoli, advised by J.González and X.Roca. Computer Vision Center, Universitat Autònoma de Barcelona, Spain, 2012.
19. Nicolás Amezquita, advised by F.Serratosa and R.Alquezar. Universitat Rovira i Virgili, Tarragona, Spain, 2009.
20. Pascal Lagger, advised by P.Fua. Ecole Polytechnique Fédérale de Lausanne, Switzerland, 2009.

EDITORIAL AND CONFERENCE DUTIES

Member of the organization committee

· Organization of the Deep Learning Barcelona Symposium, 2018, 2019.

· Organization of the Jornadas Automática, Vigo, Spain. Chair of the Computer Vision Award, 2012.

· IEEE International Conference on Computer Vision (ICCV 2011), Barcelona. Local Area Chair and Demo Chair, 2011.

· Organization of the Jornadas Automática, Alicante, Spain. Chair of the Computer Vision Award, 2011.

· Organization of the Jornadas Automática, Jaén, Spain. Chair for the Computer Vision Award, 2010.

· Co-principal organizer of the Consolider Workshop on Vision and Robotics for Non-Interactive Decision Making, Barcelona, 2010.

· Organization of the Jornadas Automática, Valladolid, Spain. Chair for the Computer Vision Award.

· CEA Workshop on Machine Learning for Computer Vision, Madrid, Spain, 2009.

· Organization of the Iberoamerican Congress on Pattern Recognition (CIARP 2003), La Habana, 2003.
· Organization of the International Conference on Pattern Recognition (ICPR 2000), Barcelona, 2000.

Journal reviewer

· IEEE Transactions on Pattern Analysis and Machine Intelligence
· International Journal of Computer Vision
· IEEE Transactions on Image Processing
· IEEE Transactions on Multimedia
· Pattern Recognition
· ACM Transactions on Graphics
· Image and Vision Computing
· Computer Vision and Image Understanding
· IEEE Transactions on Instrumentation & Measurement
· Medical Image Analysis
· Journal of Mathematical Imaging and Vision
· International Journal of Pattern Recognition and Artificial Intelligence
· Machine Vision and Applications
· Journal of Robotics
· PLoS ONE

Area Chair

· Conference on Computer Vision and Pattern Recognition, CVPR 2022.
· International Conference on Pattern Recognition, ICPR 2018, 2020.
· British Machine Vision Conference, BMVC 2017, 2019, 2020, 2021.
· Asian Conference on Computer Vision, ACCV 2016.
· International Conference on Automatic Face and Gesture Recognition, FG 2020.
· International Conference on Computer Vision (ICCV), 2011. Local Area Chair and Demo Chair.

Program committee member / Conference reviewer

· IEEE Conference on Computer Vision and Pattern Recognition, CVPR 2006–2008, 2011–2021.
· European Conference on Computer Vision, ECCV 2008, 2010, 2012, 2014, 2016, 2018, 2020.
· IEEE International Conference on Computer Vision, ICCV 2007, 2011, 2013, 2015, 2017, 2019, 2021.
· Neural Information Processing Systems, NIPS 2016, 2017, 2020.
· International Conference on Learning Representation, ICLR 2018.
· International Conference on Computational Photography, ICCP 2021.
· ACM Multimedia, 2016.
· British Machine Vision Conference, BMVC 2011.
· Asian Conference on Computer Vision, ACCV 2009, 2010.
· International Conference on 3D Vision, 3DV, 2015.
· IEEE International Conference on Advanced Video and Signal-Based Surveillance, AVSS, 2013.
· European Conference on Visual Media Production CVMP 2009, 2011.
· IEEE International Conference on Pattern Recognition, ICPR 2014, 2016.

· IEEE International Conference on Robotics and Automation, ICRA 2013–2022.

· IEEE International Conference on Intelligent Robots and Systems, IROS 2011–2017, 2021.

· International Conference on Robot and Human Interactive Communication, RO-MAN, 2018.

· International Conference on Advanced Robotics, ICAR, 2009.

· Eurographics 2006.

· CVPR Workshop on Challenges and Promises of Inferring Emotion from Images and Video, 2020.

· CVPR Workshop on Human Pose, Motion, Activities and Shape in 3D, 2018.

· ECCV Workshop on Human Behavior Understanding: Towards Generating Realistic Visual Data of Human Behavior, 2018.

· Workshop on Vision and Language, VL, 2016.

· IEEE International Symposium on Mixed and Augmented Reality, ISMAR 2007.

· ECCV Workshop on Virtual/Augmented Reality for Visual Artificial Intelligence, 2016.

· ECCV Workshop on Consumer Depth Cameras for Computer Vision 2012.

· CVPR Workshop on Non-Rigid Shape Analysis and Deformable Image Alignment, NORDIA 2008, 2011.

· ICCV Workshop on Consumer Depth Cameras for Computer Vision 2011.

· ICCV Workshop on Dynamic Shape Capture and Analysis 2011.

· International Workshop on Mobile Multimedia Computing, MMC 2014, 2015.

· Conference of the Spanish Association on Artificial Intelligence, CAEPIA 2011.

· International Conference of the Catalan Association on Artificial Intelligence, CCIA 2011, 2012.

EVALUATION COMMITTEES

· Evaluator of the Swiss National Science Foundation (SNSF). Div. Mathematics, Physical and Engineering Sciences, 2020, 2021.

· Evaluator of the Spanish Research Agency (Agencia Estatal de Investigación), since 2018.

· Evaluator of INRIA Projects for the theme “Vision, perception and multimedia interpretation”, France, 2018.

· Member of the evaluation committee of the H2020 Marie Sklodowska-Curie Actions programme, University of Leuven, 2016

· Member of the evaluation committee of P-Sphere, part of the H2020 Marie Sklodowska-Curie Actions programme, Universitat Autònoma de Barcelona, 2016.

· Project reviewer for the Austrian Science Fund (FWF), 2015.

OTHER

Administrative duties

· Department Head. Institut de Robòtica i Informàtica Industrial, CSIC-UPC, 2011-2014.

· Member of the Spanish Committee in Computer Vision, CEA, 2008-2012.

Press coverage

· ”GANimation”, our ECCV 2018 deep network for animating faces appeared in several media, e.g: La Vanguardia, ABC, NCYT Amazings, and in Topbots.com in the ”10 cutting edge research papers in computer vision & image generation”.

· Interview published in the magazine "Nyer", from Les Planes d'Hostoles, December 2017.

· "Neuroaesthetics in Fashion: Modeling the Perception of Fashionability", our CVPR 2015 paper appeared in several media, e.g.: New Scientist, Vogue, Huffington Post, Elle, Marie Claire, Yahoo Style.

· "Active Refocusing of Images and Videos", Computer Graphics World, Vol. 112, 2007

· "Active Refocusing of Images and Videos", Full Digital Innovation, Vol. 98, 2007.

PUBLICATIONS

Indicators of Quality in Scientific Production (Google Scholar, July 2021)

Total Publications	161
Citations	**7998** (700/2016; 763/2017; 954/2018; 1252/2019; 1343/2020)
Citations 10 most cited papers	2112, 671, 388, 344, 276, 202, 198, 175, 141, 130
H-Index	41
i10-index	86

3 Book Chapters and 34 Journals, among them:
- · 10 IEEE Trans. on Pattern Analysis and Machine Intelligence (Impact factor 2015: 6.077)
- · 5 International Journal of Computer Vision (Impact factor 2015: 4.278)
- · 3 Computer Vision and Image Understanding (Impact factor 2015: 2.134)
- · 2 Pattern Recognition (Impact factor 2015: 3.399)
- · 2 Image and Vision Computing (Impact factor 2015: 1.766)
- · 1 ACM Transactions on Graphics (Impact factor 2015: 4.218)

45 highly selective conferences, with acceptance rates below 30%:
- · 25 IEEE Conference on Computer Vision and Pattern Recognition (CVPR)
- · 9 IEEE International Conference on Computer Vision (ICCV)
- · 8 European Conference on Computer Vision (ECCV)
- · 2 Empirical Methods in Natural Language Processing (EMNLP)
- · 1 ACM Multimedia (ACM'MM)
- · 1 North American Chapter of the ACL (NAACL)

67 international conferences, among them:
- · 10 IEEE International Conference on Robotics and Automation (ICRA)
- · 9 IEEE International Conference on Pattern Recognition (ICPR)
- · 5 British Machine Vision Conference (BMVC)
- · 3 IEEE International Conference on Intelligent Robots and Systems (IROS)
- · 3 Asian Conference on Computer Vision (ACCV)
- · 2 IEEE Winter Conference on Applications of Computer Vision (WACV)

Book Chapters

1. A.Pumarola, A.Vakhitov, A.Agudo, F.Moreno-Noguer, A.Sanfeliu. Relative Localization for Aerial Manipulation with PL-SLAM. *Chapter in Aerial Robotic Manipulation, Eds. A.Ollero and B.Siciliano, Springer*, 2019.

2. A.Amor-Martinez, A.Ruiz, F.Moreno-Noguer, A.Sanfeliu. Precise Localization for Aerial Inspection Using Augmented Reality Markers. *Chapter in Aerial Robotic Manipulation, Eds. A.Ollero and B.Siciliano, Springer*, 2019.

3. E.Trulls, I.Kokkinos, A.Sanfeliu, F.Moreno-Noguer. Dense Segmentation-aware Descriptors. *Chapter in Dense Image Correspondences for Computer Vision, Eds. C. Liu and T. Hassner, Springer*, 2015.

Refereed Journals

4. A.Agudo, V.Lepetit, F.Moreno-Noguer. Simultaneous completion and spatiotemporal grouping of corrupted motion tracks. *The Visual Computer*, July 2021.
   ISI Impact Factor 2020: 1.456.

5. X.Xu, H.Chen, F.Moreno-Noguer, L.Jeni, F. De la Torre. 3D Human Pose, Shape and Texture from Low-Resolution Images and Videos. To appear in *IEEE Transactions on Pattern Analysis and Machine Intelligence* (PAMI), 2021.
   ISI Impact Factor 2019: 17.861.

6. G.Simarro, D.Calvete, T.A.Plomaritis, F.Moreno-Noguer, I.Giannoukakou-Leontsini, J.Montes, R.Durán. The Influence of Camera Calibration on Nearshore Bathymetry Estimation from UAV Videos. *Remote Sensing*, 13(150), January 2021. ISI Impact Factor 2019: 4.509.

7. V.Vaquero, I. del Pino, F.Moreno-Noguer, J.Solà, A.Sanfeliu, J.Andrade. Dual-branch CNNs for vehicle detection and tracking on LiDAR data. To appear in *IEEE Transactions on Intelligent Transportation Systems*, 2020. ISI Impact Factor 2019: 5.744.

8. A.Pumarola, A.Agudo, A.Martinez, A.Sanfeliu, F.Moreno-Noguer. GANimation: One-Shot Anatomically Consistent Facial Animation. *International Journal of Computer Vision* (IJCV), 128, 698–713, March 2020. ISI Impact Factor 2019: 5.698.

9. F.Simao *et al.*. Using a New High-throughput Video-Tracking Platform to Assess Behavioural changes in Daphnia Magna Exposed to Neuro-active Drugs. *Science of The Total Environment*, 66, 160–167, April 2019.
ISI Impact Factor 2019: 6.551.

10. A.Agudo, F.Moreno-Noguer. Robust Spatio-Temporal Clustering and Reconstruction of Multiple Deformable Bodies. *IEEE Transactions on Pattern Analysis and Machine Intelligence* (PAMI), 41(4), 971–984, April 2019.
ISI Impact Factor 2019: 17.861.

11. A.Agudo, F.Moreno-Noguer. Shape Basis Interpretation for Monocular Deformable 3D Reconstruction. *IEEE Transactions on Multimedia*, 21(4), 821 – 834, April 2019.
ISI Impact Factor 2019: 6.051.

12. M.Villamizar, A.Sanfeliu, F.Moreno-Noguer. Online Learning and Detection of Faces with Low Human Supervision. *The Visual Computer*, 35(3), 349–379, March 2019.
ISI Impact Factor 2019: 1.456.

13. A.Agudo, F.Moreno-Noguer. Force-Based Representation for Non-Rigid Shape and Elastic Model Estimation. *IEEE Transactions on Pattern Analysis and Machine Intelligence* (PAMI), 40(9), 2137–2150, September 2018.
ISI Impact Factor 2018: 17.73. Citations: 18

14. A.Agudo, F.Moreno-Noguer. A Scalable, Efficient, and Accurate Solution to Non-Rigid Structure from Motion. *Computer Vision and Image Understanding* (CVIU), 167(C), 121–133, February 2018.
ISI Impact Factor 2018: 2.645. Citations: 16.

15. M.Villamizar, J.Andrade, A.Sanfeliu, F.Moreno-Noguer. Sequential Boosted Random Ferns for Object Detection. *IEEE Transactions on Pattern Analysis and Machine Intelligence* (PAMI), 40(2), 272 - 288, February 2018.
ISI Impact Factor 2018: 17.73.

16. A.Ramisa, F.Yan, F.Moreno-Noguer, K.Mikolajczyk. BreakingNews: Article Annotation by Image and Text Processing. *IEEE Transactions on Pattern Analysis and Machine Intelligence* (PAMI), 40(5), 1072-1085, June 2017.
ISI Impact Factor 2017: 9.455. Citations: 44.

17. M.Villamizar, A.Garrell, A.Sanfeliu, F.Moreno-Noguer. Random Clustering Ferns for Multimodal Object Recognition. *Neurocomputing*, 28(9), 2445-2460, September 2017.
ISI Impact Factor 2017: 3.241.

18. L.Porzi, S.Rota, A.Peñate-Sánchez, E.Ricci, F.Moreno-Noguer. Learning Depth-aware Deep Representations for Robotic Perception. *IEEE Robotics and Automation Letters* (RA-L), 2(2), 468–475, April 2017.
Citations: 19.

19. A.Garrell, M.Villamizar, F.Moreno-Noguer, A.Sanfeliu. Teaching Robot's Proactive Behavior Using Human Assistance. *International Journal of Social Robotics* (IJSR), 9(2), 231–249, April 2017.

ISI Impact Factor 2017: 2.009. Citations: 18.

20. A.Agudo, F.Moreno-Noguer. Combining Local-Physical and Global-Statistical Models for Sequential Deformable Shape from Motion. *International Journal of Computer Vision* (IJCV), 122(2), 371–387, April 2017.
ISI Impact Factor 2017: 11.541. Citations: 15.

21. E.Simo-Serra, C.Torras, F.Moreno-Noguer. 3D Human Pose Tracking Priors using Geodesic Mixture Models. *International Journal of Computer Vision* (IJCV), 122(2), 388–408, April 2017.
ISI Impact Factor 2017: 11.541. Citations: 26.

22. J.Funke, J.Klein, F.Moreno-Noguer, A.Cardona, M.Cook. TED: A Tolerant Edit Distance for Segmentation Evaluation. *Methods*, 115, 119–127, February 2017.
ISI Impact Factor 2017: 3.998.

23. A.Agudo, F.Moreno-Noguer, B.Calvo, J.M.M.Montiel. Real-Time 3D Reconstruction of Non-Rigid Shapes with a Single Moving Camera. *Computer Vision and Image Understanding* (CVIU), 153(C), 37–54, December 2016.
ISI Impact Factor 2016: 2.498. Citations: 26.

24. A.Ramisa, G.Alenyà, F.Moreno-Noguer, C.Torras. A 3D descriptor to detect task-oriented grasping points in clothing. *Pattern Recognition* (PR), 60, 936–948, December 2016.
ISI Impact Factor 2016: 4.582.

25. F.Moreno-Noguer, J.M.Porta. A Bayesian Approach to Simultaneously Recover Camera Pose and Non-Rigid Shape from Monocular Images. *Image and Vision Computing* (IVC), 52, 141–153, August 2016.
ISI Impact Factor 2016: 2.671.

26. M.Villamizar, A.Garrell, A.Sanfeliu, F.Moreno-Noguer. Interactive Multiple Object Learning with Scanty Human Supervision. *Computer Vision and Image Understanding* (CVIU), 149, 51–64, August 2016.
ISI Impact Factor 2016: 2.498.

27. A.Agudo, F.Moreno-Noguer, B.Calvo, J.M.M.Montiel. Sequential Non-Rigid Structure from Motion using Physical Priors. *IEEE Transactions on Pattern Analysis and Machine Intelligence* (PAMI), 38(5), 979-994, May 2016.
ISI Impact Factor 2016: 8.329. Citations: 63.

28. G.Sanroma, A.Penate-Sanchez, R.Alquezar, F.Serratosa, F.Moreno-Noguer, J.Andrade-Cetto, M.A. Gonzalez Ballester. MSClique: Multiple Structure Discovery through Maximum Weighted Clique Problem. *PLoS ONE*, January 2016.
ISI Impact Factor 2016: 2.806.

29. E.Simo-Serra, C.Torras, F.Moreno-Noguer. DaLI: Deformation and Light Invariant Descriptor. *International Journal of Computer Vision* (IJCV), 115(2), 136-154, 2015.
ISI Impact Factor 2015: 4.278. Citations: 37.

30. E.Serradell, M.A.Pinheiro, R.Sznitman, J.Kybic, F.Moreno-Noguer, P.Fua. Non-Rigid Graph Registration using Active Testing Search. *IEEE Transactions on Pattern Analysis and Machine Intelligence* (PAMI), 37(3), 625-638, March 2015.
ISI Impact Factor 2015: 6.077. Citations: 37.

31. A.Ramisa, G.Alenya, F.Moreno-Noguer, C.Torras. Learning RGB-D Descriptors of Garment Parts for Informed Robot Grasping. *Enginnering Applications of Artificial Intelligence* (EEAI), 35, 246-258, October 2014.
ISI Impact Factor 2014: 2.207. Citations: 28.

32. A.Penate-Sanchez, J.Andrade-Cetto, F.Moreno-Noguer. Exhaustive Linearization for Robust Camera Pose and Focal Length Estimation. *IEEE Transactions on Pattern Analysis and Machine Intelligence*

(PAMI), 35(10), 2387-2400, October 2013.
ISI Impact Factor 2013: 5.694. Citations: 67.

33. F.Moreno-Noguer, P.Fua. Stochastic Exploration of Ambiguities for Non-Rigid Shape Recovery. *IEEE Transactions on Pattern Analysis and Machine Intelligence* (PAMI), 35(2), 463-475, February 2013.
ISI Impact Factor 2013: 5.694. Citations: 18.

34. M.Villamizar, J.Andrade-Cetto, A.Sanfeliu, F.Moreno-Noguer. Bootstrapping Boosted Random Ferns for Discriminative and Efficient Object Detection. *Pattern Recognition* (PR), 45(9), 3141-3153, September 2012.
ISI Impact Factor 2012: 2.632. Citations: 49.

35. V.Lepetit, F.Moreno-Noguer, P.Fua. EPnP: An Accurate O(n) Solution to the PnP Problem. *International Journal of Computer Vision* (IJCV), 81(2), 155-166, February 2009.
ISI Impact Factor 2009: 3.106. Citations: 1743.

36. F.Moreno-Noguer, A.Sanfeliu, D.Samaras. Dependent Multiple Cue Integration for Robust Tracking. *IEEE Transactions on Pattern Analysis and Machine Intelligence* (PAMI), 30(4), 670-685, April 2008.
ISI Impact Factor 2008: 5.96. Citations: 87.

37. F.Moreno-Noguer, P.N.Belhumeur, S.K.Nayar. Active Refocusing of Images and Videos. *ACM Transactions on Graphics* (SIGGRAPH), 26(3), 67-68, July 2007.
Acceptance rate (oral): 20.0%. ISI Impact Factor 2007: 3.41. Citations: 160.

38. F.Moreno-Noguer, A.Sanfeliu, D.Samaras. Integration of Deformable Contours and a Multiple Hypotheses Fisher Color Model for Robust Tracking in Varying Illuminant Environments. *Image and Vision Computing* (IVC), 25(3), 285-296, March 2007.
ISI Impact Factor 2007: 1.03. Citations: 22.

Highly selective refereed conferences [1]

39. A.Ruiz, A.Agudo, F.Moreno-Noguer. Generating Attribution Maps with Disentangled Masked Backpropagation (poster). *International Conference on Computer Vision* (ICCV), Virtual, October 2021.
Acceptance rate (poster): 25.9%.

40. E.Ramon, G.Triginer, J.Escur, A.Pumarola, J.Garcia, X.Giro-i-Nieto, F.Moreno-Noguer. H3D-Net: Few-Shot High-Fidelity 3D Head Reconstruction (poster). *International Conference on Computer Vision* (ICCV), Virtual, October 2021.
Acceptance rate (poster): 25.9%.

41. A.Hernandez, A.Vilalta, F.Moreno-Noguer. Neural Cellular Automata Manifold. *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Nashville, USA, June 2021.
Acceptance rate (oral): 3%.

42. E.Corona, A.Pumarola, G.Alenyà, G.Pons-Moll, F.Moreno-Noguer. SMPLicit: Topology-aware Generative Model for Clothed People. *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Nashville, USA, June 2021.
Acceptance rate (poster): 27%.

43. A.Pumarola, E.Corona, G.Pons-Moll, F.Moreno-Noguer. D-NeRF: Neural Radiance Fields for Dynamic Scenes. *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Nashville, USA, June 2021.
Acceptance rate (poster): 27%.

44. A.Vakhitov, L.Ferraz, A.Agudo, F.Moreno-Noguer. Uncertainty-Aware Camera Pose Estimation from Points and Lines. *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Nashville,

[1] Note: The top three computer vision conferences (ICCV, ECCV, CVPR) are highly competitive with low acceptance rates <30%. ICCV and ECCV have CiteSeer impact factor rankings in the top 5% and 7%, respectively of all computer science journals and conferences.

USA, June 2021.
Acceptance rate (poster): 27%.

45. X.Xu, H.Chen, F.Moreno-Noguer, L.A.Jeni, F.De la Torre. 3D Human Shape and Pose from a Single Low-Resolution Image with Self-Supervised Learning (poster). *European Conference on Computer Vision* (ECCV), Online, August 2020.
Acceptance rate: 26%.

46. E.Corona, A.Pumarola, G.Alenya, F.Moreno-Noguer. Context-aware Human Motion Prediction. *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Seattle, USA, June 2020.
Acceptance rate (poster): 22%.

47. E.Corona, A.Pumarola, G.Alenya, F.Moreno-Noguer, G.Rogez. GanHand: Predicting Human Grasp Affordances in Multi-Object Scenes (oral). *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Seattle, USA, June 2020.
Acceptance rate (oral): 5%.

48. A.Pumarola, S.Popov, F.Moreno-Noguer, V.Ferrari. C-Flow: Conditional Generative Flow Models for Images and 3D Point Clouds. *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Seattle, USA, June 2020.
Acceptance rate (poster): 22%.

49. A.Sabir, F.Moreno-Noguer, L.Padró. Semantic Relatedness based Re-ranker for Text Spotting. *Conference on Empirical Methods in Natural Language Processing* (EMNLP), Hong Kong, China, November 2019.
Acceptance rate (poster): 23.8%.

50. A.Pumarola, J.Sanchez, G.Choi, A.Sanfeliu, F.Moreno-Noguer. 3DPeople: Modeling the Geometry of Dressed Humans (poster). *International Conference on Computer Vision* (ICCV), Seoul, Korea, October 2019.
Acceptance rate (poster): 25%. Citations: 19

51. A.Hernandez-Ruiz, J.Gall, F.Moreno-Noguer. Human Motion Prediction via Spatio-Temporal Inpainting (poster). *International Conference on Computer Vision* (ICCV), Seoul, Korea, October 2019.
Acceptance rate (poster): 25%. Citations: 19.

52. A.Pumarola, A.Agudo, A.Martinez, A.Sanfeliu, F.Moreno-Noguer. GANimation: Anatomically-aware Facial Animation from a Single Image (oral). *European Conference on Computer Vision* (ECCV), Munich, Germany, September 2018.
Acceptance rate (oral): 2%. Citations: 222.
Best Honorable Paper Award.

53. A.Pumarola, A.Agudo, L.Porzi, A.Sanfeliu, V.Lepetit, F.Moreno-Noguer. Geometry-Aware Network for Non-Rigid Shape Prediction from a Single View. *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Salt Lake City, USA, June 2018.
Acceptance rate: 29.6%. Citations: 26.

54. A.Pumarola, A.Agudo, A.Sanfeliu, F.Moreno-Noguer. Unsupervised Person Image Synthesis in Arbitrary Poses. *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Salt Lake City, USA, June 2018.
Acceptance rate: 29.6%. Citations: 72.

55. A.Agudo, F.Moreno-Noguer. Image Collection Pop-up: 3D Reconstruction and Clustering of Rigid and Non-Rigid Categories. *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Salt Lake City, USA, June 2018.
Acceptance rate: 29.6%. Citations: 12.

56. A.Hernández-Ruiz, L.Porzi, S.Rota-Bulo, F.Moreno-Noguer. 3D CNNs on Distance Matrices for Human Action Recognition. *ACM Multimedia* (ACM'MM), Mountain View, USA, October 2017.

Acceptance rate (oral): 7.5%. Citations: 16.

57. F.Moreno-Noguer. 3D Human Pose Estimation from a Single Image via Distance Matrix Regression. *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Honolulu, USA, June 2017.
Acceptance rate (poster): 29.0%. Citations: 211.

58. A.Agudo, F.Moreno-Noguer. DUST: Dual Union of Spatio-Temporal Subspaces for Monocular Multiple Object 3D Reconstruction. *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Honolulu, USA, June 2017.
Acceptance rate (poster): 29.0%. Citations: 15.

59. A.Vakhitov, J.Funke, F.Moreno-Noguer. Accurate and Linear Time Pose Estimation from Points and Lines (poster). *European Conference on Computer Vision* (ECCV), Amsterdam, Netherlands, October 2016.
Acceptance rate (poster): 24.4%. Citations: 32.

60. A.Quattoni, A.Ramisa, P.Swaroop Madhyastha, E.Simo-Serra, F.Moreno-Noguer. Structured Prediction with Output Embeddings for Semantic Image Annotation (poster) . *Conference of the North American Chapter of the Association for Computational Linguistics* (NAACL), San Diego, USA, June, 2016.
Acceptance rate (poster): 29.0%.

61. A.Agudo, F.Moreno-Noguer. Learning Shape, Motion and Elastic Models in Force Space (poster). *International Conference on Computer Vision* (ICCV), Santiago de Chile, December 2015.
Acceptance rate (poster): 25.0%. Citations: 25.

62. E.Simo, E.Trulls, L.Ferraz, I.Kokkinos, P.Fua, F.Moreno-Noguer. Discriminative Learning of Deep Convolutional Feature Point Descriptors (poster). *International Conference on Computer Vision* (ICCV), Santiago de Chile, December 2015.
Acceptance rate (poster): 25.0%. Citations: 528.

63. A.Ramisa, J.Wang, Y.Lu, E.Dellandrea, F.Moreno-Noguer, R.Gaizauskas. Combining Geometric, Textual and Visual Features for Generating Prepositions in Image Descriptions (poster). *Conference on Empirical Methods in Natural Language Processing* (EMNLP), Lisboa, Portugal, September 2015.
Acceptance rate (poster): 24.0%. Citations: 23.

64. A.Agudo, F.Moreno-Noguer. Simultaneous Pose and Non-rigid Shape with Particle Dynamics (poster). *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Boston, USA, June 2015.
Acceptance rate (poster): 25.0%. Citations: 43.

65. E.Simo-Serra, S.Fidler, F.Moreno-Noguer, R.Urtasun. Neuroaesthetics in Fashion: Modeling the Perception of Fashionability (poster). *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Boston, USA, June 2015.
Acceptance rate (poster): 25.0%. Citations: 178.

66. E.Trulls, S.Tsogkas, I.Kokkinos, A.Sanfeliu, F.Moreno-Noguer. Segmentation-aware Deformable Part Models (poster). *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Columbus, USA, June 2014.
Acceptance rate (poster): 29.0%. Citations: 32.

67. L.Ferraz, X.Binefa, F.Moreno-Noguer. Very Fast Solution to the PnP Problem with Algebraic Outlier Rejection (poster). *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Columbus, USA, June 2014.
Acceptance rate (poster): 29.0%. Citations: 110.

68. E.Trulls, I.Kokkinos, A.Sanfeliu, F.Moreno-Noguer. Dense Segmentation-aware Descriptors (poster). *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Portland, USA, June 2013.
Acceptance rate (poster): 26.0%. Citations: 57.

69. E.Simo-Serra, A.Quattoni, C.Torras, F.Moreno-Noguer. A Joint Model for 2D and 3D Pose Estimation from a Single Image (poster). *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Portland, USA, June 2013.
Acceptance rate (poster): 26.0%. Citations: 106.

70. E.Trulls, A.Sanfeliu, F.Moreno-Noguer. Spatiotemporal Descriptor for Wide-Baseline Reconstruction of Non-Rigid and Ambiguous Scenes (poster). *European Conference on Computer Vision* (ECCV), Vol 7574 of Lecture Notes in Computer Science, pp.441-545, Florence, Italy, October 2012.
Acceptance rate (poster): 25.0%. Citations: 20.

71. E.Serradell, P.Glowacki, J.Kybic, F.Moreno-Noguer, P.Fua. Robust Non-Rigid Registration of 2D and 3D Graphs (poster). *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Providence, USA, June 2012.
Acceptance rate (poster): 24.1%. Citations: 24.

72. E.Simo-Serra, A.Ramisa, G.Alenya, C.Torras, F.Moreno-Noguer. Single Image 3D Human Pose Estimation from Noisy Observations (poster). *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Providence, USA, June 2012.
Acceptance rate (poster): 24.1%. Citations: 119.

73. E.Serradell, A.Romero, R.Leta, C.Gatta, F.Moreno-Noguer. Simultaneous Correspondence and Non-Rigid 3D Reconstruction of the Coronary Tree from Single X-ray Images (poster). *International Conference on Computer Vision* (ICCV), Barcelona, Spain, November 2011.
Acceptance rate (poster): 24.0%. Citations: 32.

74. F.Moreno-Noguer. Deformation and Illumination Invariant Feature Point Descriptor (poster). *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Colorado Springs, USA, June 2011.
Acceptance rate (poster): 22.7%. Citations: 50.

75. F.Moreno-Noguer, J.M.Porta. Probabilistic Simultaneous Pose and Non-Rigid Shape Recovery (poster). *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Colorado Springs, USA, June 2011.
Acceptance rate (poster): 22.7%. Citations: 37.

76. F.Moreno-Noguer, J.M.Porta, P.Fua. Exploring Ambiguities for Monocular Non-Rigid Shape Estimation (poster). *European Conference on Computer Vision* (ECCV), Vol 6313 of Lecture Notes in Computer Science, pp.361-374, Crete, Greece, September 2010.
Acceptance rate (poster): 24.5%. Citations: 23.

77. E.Serradell, M.Özuysal, V.Lepetit, P.Fua, F.Moreno-Noguer. Combining Geometric and Appearance Priors for Robust Homography Estimation (poster). *European Conference on Computer Vision* (ECCV), Crete, Vol 6313 of Lecture Notes in Computer Science, pp.58-72, Greece, September 2010.
Acceptance rate (poster): 24.5%. Citations: 48.

78. J.Sanchez-Riera, J.Östlund, P.Fua, F.Moreno-Noguer. Simultaneous Pose, Correspondence and Non-Rigid Shape (poster). *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), San Francisco, USA, June 2010.
Acceptance rate (poster): 22.3%. Citations: 44.

79. M.Villamizar, F.Moreno-Noguer, J.Andrade-Cetto, A.Sanfeliu. Efficient Rotation Invariant Object Detection using Boosted Random Ferns (poster). *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), San Francisco, USA, June 2010.
Acceptance rate (poster): 22.3%. Citations: 69.

80. F.Moreno-Noguer, M.Salzmann, V.Lepetit, P.Fua. Capturing 3D Stretchable Surfaces from Single Images in Closed Form (poster). *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Miami, USA, pp.1842 - 1849, June 2009.
Acceptance rate (poster): 21.9%. Citations: 56.

81. F.Moreno-Noguer, V.Lepetit, P.Fua. Pose Priors for Simultaneously Solving Alignment and Correspondence (poster). *European Conference on Computer Vision* (ECCV), Vol 5303 of Lecture Notes in Computer Science, pp.405-418, Marseille, France, September 2008.
Acceptance rate (poster): 23.3%. Citations: 94.

82. M.Salzmann, F.Moreno-Noguer, V.Lepetit, P.Fua. Closed-Form Solution to Non-Rigid 3D Surface Detection (poster). *European Conference on Computer Vision* (ECCV), Vol 5303 of Lecture Notes in Computer Science, pp.581-594, Marseille, France, September 2008.
Acceptance rate (poster): 23.3%. Citations: 109.

83. F.Moreno-Noguer, V.Lepetit, P.Fua. Accurate Non-Iterative O(n) Solution to the PnP Problem (oral). *International Conference on Computer Vision* (ICCV), pp.1-8, Rio de Janeiro, Brazil, October 2007.
Acceptance rate (oral): 3.9%. Citations: 349.

84. F.Moreno-Noguer, A.Sanfeliu, D.Samaras. Integration of Conditionally Dependent Object Features for Robust Figure/Background Segmentation (poster). *International Conference on Computer Vision* (ICCV), pp.1713-1720, Beijing, China, October 2005.
Acceptance rate (poster): 15.5%. Citations: 11.

Other international conferences and workshops

85. J.Shen, A.Ruiz, A.Agudo, F.Moreno-Noguer. Stochastic Neural Radiance Fields: Quantifying Uncertainty in Implicit 3D Representations. *International Conference on 3D Vision* (3DV), Online, December 2021.

86. N.Ugrinovic, A.Ruiz, A.Agudo, A.Sanfeliu, F.Moreno-Noguer. Body Size and Depth Disambiguation in Multi-Person Reconstruction from Single Images. *International Conference on 3D Vision* (3DV), Online, December 2021.

87. J.Sanchez, A.Pumarola, F.Moreno-Noguer. PhysXNet: A Customizable Approach for Learning Cloth Dynamics on Dressed People. *International Conference on 3D Vision* (3DV), Online, December 2021.

88. A.Chatziagapi, S.Athar, F.Moreno-Noguer, D.Samaras. SIDER: Single-Image Neural Optimization for Facial Geometric Detail Recovery. *International Conference on 3D Vision* (3DV), Online, December 2021.

89. J.Laplaza, A.Pumarola, F.Moreno-Noguer, A.Sanfeliu. Attention Deep Learning based Model for Predicting the 3D Human Body Pose using the Robot Human Handover. *International Symposium on Robot and Human Interactive Communication (RO-MAN)*, Virtual, August 2021.

90. J.Lundell, E.Corona, T.Nguyen, F.Verdoja, P.Weinzaepfel, G.Rogez, F.Moreno-Noguer, V.Kyrki. Multi-FinGAN: Generative Coarse-To-Fine Sampling of Multi-Finger Grasps. *IEEE International Conference on Robotics and Automation* (ICRA), Xian, China, May 2021.
Acceptance rate: 48.0%.

91. W.Guo, E.Corona, F.Moreno-Noguer, X.Alameda-Pineda. PI-Net: Pose Interacting Network for Multi-Person Monocular 3D Pose Estimation. *Winter Applications on Computer Vision (WACV)*, Online, January 2021.

92. J.Garcia-Lopez, A.Agudo, F.Moreno-Noguer. E-DNAS: Differentiable Neural Architecture Search for Embedded Systems (poster). *IEEE International Conference on Pattern Recognition* (ICPR), Milan, Italy, January 2021.
Acceptance rate: 35.6%.

93. J.Shi, E.Riba, D.Mishkin, F.Moreno-Noguer, A.Nicolaou. Differentiable Data Augmentation with Kornia. *NeurIPS Workshop on differentiable computer vision*, Vancouver, Canada, December 2020.

94. A.Sabir, F.Moreno-Noguer, L.Padró. Textual Visual Semantic Dataset for Text Spotting. *CVPR Workshop on Text and Documents in the Deep Learning Era* (CVPRW), Seattle, USA, June 2020.

95. J.Sanchez, F.Moreno-Noguer. Integrating Human Body MoCaps into Blender using RGB Images. *International Conference on Advances in Computer-Human Interactions* (ACHI), Valencia, Spain, March 2020.

96. A.Pumarola, V.Goswami, F.Vicente, F. De la Torre, F.Moreno-Noguer. Unsupervised Image-to-Video Clothing Transfer (Poster). *ICCV'19 Workshop on Computer Vision for Fashion, Art and Design*, Seoul, Korea, October 2019.

97. V.Vaquero, K.Fischer, F.Moreno-Noguer, A.Sanfeliu, S.Milz. Improving Map Re-localization with Deep 'Movable' Objects Segmentation on 3D LiDAR Point Clouds. *IEEE Intelligent Transportation Systems Conference* (ITSC), Auckland, New Zealand, October 2019.

98. J.García, A.Agudo, F.Moreno-Noguer. 3D Vehicle detection on an FPGA from LiDAR Point Clouds. *International Conference on Watermarking and Image Processing* (ICWIP), Marseille, France, September 2019.

99. J.García, A.Agudo, F.Moreno-Noguer. Vehicle Pose Estimation via Regression of Semantic Points of Interest. *International Symposium on Image and Signal Processing and Analysis* (ISPA), Dubrovnik, Croatia, September 2019.

100. G.Rotger, F.Moreno-Noguer, F.Lumbreras, A.Agudo. Single View Facial Hair 3D Reconstruction. *Iberian Conference on Pattern Recognition and Image Analysis* (IBPRIA). Madrid, July 2019.

101. G.Rotger, F.Moreno-Noguer, F.Lumbreras, A.Agudo. Detailed 3D Face Reconstruction from a Single RGB Image. *International Conference on Computer Graphics, Visualization and Computer Vision* (WSCG), Prague, Czech Republic, May 2019.

102. N.Fatemi, J.Nikilic, F.Moreno-Noguer. Modeling a new Workflow based on Emotional Analysis of Floor-plans using Machine Learning Algorithms and Semiotics. *International Conference on Virtual City and Territory*, Barcelona, Spain, 2019.

103. A.Sabir, F.Moreno-Noguer, L.Padró. Enhancing Text Spotting with Multiple Visual Semantic Fusion for Text Re-ranking (oral). *Asian Conference on Computer Vision* (ACCV), Perth, Australia, December 2018.
Acceptance rate (oral): 4.5%.

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105. A.Agudo, F.Moreno-Noguer. Deformable Motion 3D Reconstruction by Union of Regularized Subspaces (poster). *IEEE International Conference on Image Processing* (ICIP), Athens, Greece, October 2018.

106. V.Vaquero, A.Sanfeliu, F.Moreno-Noguer. Hallucinating Dense Optical Flow from Sparse Lidar for Autonomous Vehicles (poster). *IEEE International Conference on Pattern Recognition* (ICPR), Beijing, China, August 2018.

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Acceptance rate (oral): 40.6%.

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October 2017.
Best Paper Award.

111. L.Porzi, A.Penate, E.Ricci, F.Moreno-Noguer. Depth-Aware Convolutional Neural Networks for Accurate 3D Pose Estimation in RGB-D Images (oral). *IEEE/RSJ International Conference on Intelligent Robots and Systems* (IROS), Vancouver, Canada, September 2017.
Acceptance rate (oral): 44.8%.

112. V.Vaquero, I. del Pino, F.Moreno-Noguer, J.Sola, A.Sanfeliu, J.Andrade-Cetto. Deconvolutional Networks for Point-Cloud Vehicle Detection and Tracking in Driving Scenarios. *European Conference on Mobile Robotics* (ECMR), Paris, France, September 2017.
Acceptance rate (oral): 58%. Citations: 24.

113. V.Vaquero, G.Ros, F.Moreno-Noguer, A.Lopez, A.Sanfeliu. Joint Coarse-and-Fine Reasoning for Deep Optical Flow. *IEEE International Conference on Image Processing* (ICIP), Beijing, China, September 2017. Citations: 10.

114. A.Rubio L.Yu, E.Simo-Serra, F.Moreno-Noguer. Multi-Modal Joint Embedding for Fashion Product Retrieval. *IEEE International Conference on Image Processing* (ICIP), Beijing, China, September 2017.

115. A.Pumarola, A.Vakhitov, A.Agudo, A.Sanfeliu, F.Moreno-Noguer. PL-SLAM: Real-time monocular visual SLAM with points and lines. *IEEE International Conference on Robotics and Automation* (ICRA), Singapur, May 2017.
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118. A.Agudo, F.Moreno-Noguer. Global Model with Local Interpretation for Dynamic Shape Reconstruction. *Winter Applications in Computer Vision* (WACV), Santa Rosa, USA, February 2017.

119. A.Agudo, F.Moreno-Noguer. Recovering Pose and 3D Deformable Shape from Multi-Instance Image Ensembles (poster). *Asian Conference on Pattern Recognition* (ACCV), Taipei, Taiwan, November 2016.
Acceptance rate (poster): 25%.

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122. A.Agudo, J.M.M.Montiel, B.Calvo, F.Moreno-Noguer. Mode-Shape Interpretation: Re-Thinking Modal Space for Recovering Deformable Shapes (oral). *IEEE Winter Conference on Applications of Computer Vision* (WACV), Lake Placid, USA, March 2016.
Citations: 16.

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Acceptance rate (poster): 39%. Citations: 13.

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Best Poster Award.

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Acceptance rate (oral): 41%. Citations: 23.

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Acceptance rate (oral): 41%.

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Best Paper Award.

129. A.Penate, F.Moreno-Noguer, J.Andrade-Cetto, F.Fleuret. LETHA: Learning from High Quality Inputs for 3D Pose Estimation in Low Quality Images (oral). *International Conference on 3D Vision* (3DV), Tokyo, Japan, November 2014.
Acceptance rate (oral): 17.0%.

130. E.Simo-Serra, S.Fidler, F.Moreno-Noguer, R.Urtasun. A High Performance CRF Model for Clothes Parsing (poster). *Asian Conference on Computer Vision* (ACCV), Singapore, November 2014.
Acceptance rate (poster): 27.0%. Citations: 84.

131. L.Ferraz, X.Binefa, F.Moreno-Noguer. Leveraging Feature Uncertainty in the PnP Problem (poster). *British Machine Vision Conference* (BMVC), Nottingham, UK, September 2014.
Acceptance rate (poster): 30%. Citations: 21.

132. E.Simo-Serra, C.Torras, F.Moreno-Noguer. Geodesic Finite Mixture Models (poster). *British Machine Vision Conference* (BMVC), Nottingham, UK, September 2014.
Acceptance rate (poster): 30%.

133. M.Villamizar, A.Sanfeliu, F.Moreno-Noguer. Fast Online Learning and Detection of Natural Landmarks for Autonomous Aerial Robots (oral). *IEEE International Conference on Robotics and Automation* (ICRA), Hong Kong, China, May 2014.
Acceptance rate (oral): 39%. Citations: 10.

134. A.Amor-Martínez, A.Ruiz, F.Moreno-Noguer, A.Sanfeliu. On-board Real-time Pose Estimation for UAVs using Deformable Visual Contour Registration (oral). *IEEE International Conference on Robotics and Automation* (ICRA), Hong Kong, China, May 2014.
Acceptance rate (oral): 39%. Citations: 20.

135. A.Ramisa, G.Alenya, F.Moreno-Noguer , C.Torras. FINDDD: A Fast 3D Descriptor to Characterize Textiles for Robot Manipulation (oral). *IEEE/RSJ International Conference on Intelligent Robots and Systems* (IROS),Tokyo, Japan, November 2013.
Acceptance rate (oral): 43%. Citations: 37.

136. A.Penate-Sanchez, J.Andrade-Cetto, F.Moreno-Noguer. Simultaneous Pose, Focal Length and 2D-to-3D Correspondences from Noisy Observations (poster). *British Machine Computer Vision* (BMVC), Bristol, UK, September 2013.
Acceptance rate (poster): 30%.

137. A.Garrell, M.Villamizar, F.Moreno-Noguer, A.Sanfeliu. Proactive Behavior of an Autonomous Mobile Robot for Human-Assisted Learning (oral). *International Symposium on Robot and Human Interactive Communication (RO-MAN)*, Gyeongju, Korea, August 2013.
Citations: 22.

138. M.Pinheiro, R.Sznitman, E.Serradell, J.Kybic, F.Moreno-Noguer, P.Fua. Active Testing Search for Point Cloud Matching (oral). *Information Processing in Medical Imaging (IPMI)*, Asilomar, California, July 2013.

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Acceptance rate (oral): 15%. Citations:20.

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Acceptance rate (oral): 40%. Citations: 104.

141. G.Alenya, A.Ramisa, F.Moreno-Noguer , C.Torras. Characterization of Textile Grasping Experiments (oral). *Workshop on the Conditions for Replicable Experiments and Performance Comparison in Robotics Research* (in ICRA'12), Minnesota, USA, May 2012.

142. E.Serradell, J.Kybic, F.Moreno-Noguer, P.Fua. Robust Elastic 2D/3D Geometric Graph Matching (oral). *SPIE Medical Imaging*, San Diego, USA, February 2012. Citations: 11.

143. M.Villamizar, H.Grabner, J.Andrade-Cetto, A.Sanfeliu, L. Van Gool, F.Moreno-Noguer. Efficient 3D Object Detection using Multiple Pose-Specific Classifiers (oral). *British Machine Computer Vision* (BMVC), Dundee, UK, September 2011.
Acceptance rate (oral): 8.0%. Citations: 31.

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145. M.Villamizar, F.Moreno-Noguer, J.Andrade-Cetto, A.Sanfeliu. Detection Performance Evaluation of Boosted Random Ferns (oral). *Iberian Conference on Pattern Recognition and Image Analysis* (IBPRIA). Vol 6669 of Lecture Notes in Computer Science, pp.67-75, Las Palmas, Spain, June 2011.

146. M.Villamizar, F.Moreno-Noguer, J.Andrade-Cetto, A.Sanfeliu. Shared Random Ferns for Efficient Detection of Multiple Categories (poster). *International Conference on Pattern Recognition* (ICPR), Istanbul, Turkey, August 2010.
Acceptance rate (poster): 35.6%. Citations: 23.

147. A.Garrell, A.Sanfeliu, F.Moreno-Noguer. Discrete Time Motion Model for Guiding People in Urban Areas Using Multiple Robots (oral). *IEEE/RSJ International Conference on Intelligent Robots and Systems* (IROS), Saint Louis, USA, pp.486-491, October 2009.
Best Paper Nomination. Acceptance rate (oral): 54%. Citations: 26.

148. F.Moreno-Noguer, A.Sanfeliu, D.Samaras. A Target Dependent Colorspace for Robust Tracking (oral). *International Conference on Pattern Recognition* (ICPR), pp.43-46, Hong Kong, China, August 2006.
Acceptance rate (oral): 14.0%.

149. F.Moreno-Noguer, A.Sanfeliu, D.Samaras. Integration of Dependent Bayesian Filters for Robust Tracking (oral). *IEEE International Conference on Robotics and Automation* (ICRA), pp.4081-4087, Orlando, USA, May 2006.
Acceptance rate (oral): 38.0%.

150. F.Moreno-Noguer, S.K.Nayar, P.N.Belhumeur. Optimal Illumination for Image and Video Relighting (oral). *IEE European Conference on Visual Media Production* (CVMP), pp.201-210, London, UK, December 2005.
Citations: 16.

151. F.Moreno-Noguer, S.K.Nayar, P.N.Belhumeur. Optimal Illumination for Image and Video Relighting (Technical sketch, oral), *SIGGRAPH Sketch*, pp:1-2, Los Angeles, USA, August 2005.

Acceptance rate (oral): 25%.

152. F.Moreno-Noguer, A.Sanfeliu. A Framework to Integrate Particle Filters for Robust Tracking in Non-stationary Environments (oral). *Iberian Conference on Pattern Recognition and Image Analysis* (IBPRIA). Vol. 3522 of Lecture Notes in Computer Science, pp.93-101, Estoril, Portugal, June 2005.
Best Paper Award. ISI Impact Factor 2005: 0.402.

153. F.Moreno-Noguer, A.Sanfeliu. Integration of Shape and a Multihypothesis Fisher Color Model for Figure-Ground Segmentation in Non-Stationary Environments (poster). *International Conference on Pattern Recognition* (ICPR), pp.771-774, Cambridge, UK, August 2004.
Acceptance rate (poster): 35.1%.

154. F.Moreno-Noguer, A.Sanfeliu, D.Samaras. Fusion of a Multiple Hypotheses Color Model and Deformable Contours for Figure Ground Segmentation in Dynamic Environments (oral). *Workshop on Articulated and Non-Rigid Motion* (in CVPR'04), pp.1-13, Washington, USA, June 2004.

155. F.Moreno-Noguer, A. Sanfeliu. Adaptive color model for figure-ground segmentation in dynamic environments (oral). *Iberoamerican Congress on Pattern Recognition* (CIARP). Vol. 3287 of Lecture Notes in Computer Science, pp.37-44, Puebla, Mexico, October 2004.
ISI Impact Factor (2004): 0.513.

156. F.Moreno-Noguer, J. Andrade-Cetto, A. Sanfeliu. Fusion of color and shape for object tracking under varying illumination (oral). *Iberian Conference on Pattern Recognition and Image Analysis* (IBPRIA). Vol. 2652 of Lecture Notes in Computer Science, pp.580-588, Puerto de Andratx, Spain, June 2003.
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157. F.Moreno-Noguer, A.Tarrida, J.Andrade-Cetto, A.Sanfeliu. 3D Real Time Head Tracking Fusing Color Histograms and Stereovision (poster). *International Conference on Pattern Recognition* (ICPR), pp.368-371, Quebec, Canada, September 2002.
Acceptance rate (poster): 44.8%. Citations: 40.

158. F.Moreno-Noguer, J.Andrade-Cetto, A.Sanfeliu. Localization of Human Faces Fusing Color Segmentation and Depth from Stereo (oral). *IEEE International Conference on Emerging Technologies and Factory Automation* (ETFA), pp.527-535, Antibes, France, June 2001.
Citations: 16.

National conferences

159. A.Sabir, F.Moreno-Noguer, L.Padró. Enhancing Text Spotting with a Language Model and Visual Context Information (oral). *21th International Conference of the Catalan Association of Artificial Intelligence* (CCIA), Roses, Spain, October 2018.

160. J.Garcia, A.Agudo, F.Moreno-Noguer. Vehicle Pose Estimation using G-Net: Multi-Class Localization and Depth Estimation (poster). *21th International Conference of the Catalan Association of Artificial Intelligence* (CCIA), Roses, Spain, October 2018.

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Best Computer Vision Paper Award.

162. G.Alenyà, F.Moreno-Noguer, A.Ramisa,C.Torras. Active Perception of Deformable Objects using 3D Cameras (oral). *Workshop in Robotics: Experimental Robotics*, Sevilla, Spain, November 2011.

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Citations: 22.

164. J.Scandaliaris, R.Alquézar, J.Andrade-Cetto, J.Aranda, J.Climent, A.Grau, J.M.Mirats, F Moreno-Noguer, F.Serratosa, J.Vergés, T.Vidal, A.Sanfeliu. Research at the learning and vision mobile robotics group 2004-2005 (poster), *Symposium on Pattern Recognition and Image Analysis, 1st Spanish Congress in Informatics*, Granada, Spain, September 2005.

165. J.Andrade-Cetto, A.Grau, J.Climent, F.Moreno-Noguer, R.Alquézar, F.Serratosa, J.Vergés, T.Vidal, Y.Bolea, A.Sanfeliu. Research at the learning and vision mobile robotics group (oral), *Jornada de Recerca en Automàtica, Visió i Robòtica, Recerca en Automàtica, Visió i Robòtica*, pp. 117-128, Barcelona, Spain, February 2004.

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PhD Extraordinary Award from the Universitat Politècnica de Catalunya.
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169. F.Moreno-Noguer. Development of a stereo vision system for a mobile robot. *M.S. Thesis, Industrial Engineering, Universitat Politècnica de Catalunya*, (Tech. Rep. IRI-DT-01-01, Institut de Robòtica i Informàtica Industrial), March 2001.
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